



**Admission Articulation Agreement Between  
Quincy College  
AND  
North Shore Community College**

This admission agreement (“Agreement”) dated December 9, 2022 is between Quincy College, an educational corporation formed under the laws of the Commonwealth of Massachusetts with its principal office located at 1250 Hancock Street, Quincy, MA 02169 (hereafter referred to as “QC”), and North Shore Community College, a community college organized under the laws of the Commonwealth of Massachusetts with its principal office at 1 Ferncroft Road, Danvers, MA 01923 | (hereafter referred to as “North Shore”).

It is agreed by and between QC and North Shore, for the mutual consideration and covenants herein contained, as follows:

1. QC and North Shore hereby agree to an admissions arrangement as set forth in this Agreement, whereby students from North Shore may be eligible to complete a Bachelor of Science in Computer Science at QC. This arrangement is referred to as the Partner Community College Transfer Pathway to the QC Bachelor of Science in Computer Science (“Transfer Pathway”).
2. The terms and conditions of the Transfer Pathway are set forth in detail in Appendix A of this Agreement, (“Transfer Pathway Terms”). The Transfer Pathway Terms, as updated and amended are incorporated in this Agreement by reference. All courses must be completed in accordance with each institution’s academic standards and requirements, as published in the respective current catalog of each institution and set forth in any other applicable materials published by each institution, including the Transfer Pathway Terms.
3. To be eligible for the Transfer Pathway, students must successfully complete an Associate degree program at North Shore with at least a 2.0 GPA in one of the following programs: AS in Computer Programming (EXHIBIT A), AA in Computer Science Transfer (EXHIBIT B), AS in Computer Networking and Security (EXHIBIT C); AS in Computer Applications (EXHIBIT D); an AS in Database Management and Security (EXHIBIT E); and an AA in Computer Information Systems (EXHIBIT F).
4. QC will accept at least 54 and up to 90 credits from graduates of these programs. A ‘C’ or better is required to transfer any of the 67 credits of program requirements, and a ‘D’ or better is required to transfer any of the 41 credits of general education core and 12 credits of general elective requirements.

5. Non-credit or remedial courses below college level may not be accepted for transfer. ESL courses are not accepted for credit.
6. QC will also adhere to these additional transfer policies:
  - Accept previous credits earned from Advanced Placement (AP) Exams that have been applied to the completed associate degree at North Shore.
  - Accept previous credits earned from College Level Examination Program (CLEP) that have been applied to the completed associate degree at North Shore.
  - Accept previous credits earned from other exam sources that have been applied to the completed associate degree at North Shore.
  - Accept academic credits earned through the evaluation of military, occupation, training, experience and coursework that have been applied to the completed associate degree at North Shore.
7. QC reserves the right to rescind an offer of acceptance if the student is no longer considered in good academic or disciplinary standing between the time of acceptance and matriculation.
8. North Shore graduates accepted into QC's Bachelor of Science in Computer Science are subject to the graduation requirements of the QC catalog and other published standards issued by QC in the year of matriculation. In addition, North Shore graduates are subject to changes that may be required to meet accreditation standards, including, but not limited to, those established by the New England Commission of Higher Education (NECHE) or those determined by QC faculty as warranted to ensure a quality educational program.

Each party agrees that it will notify the other party as soon as possible of any changes to its programs that will impact this Agreement. Both institutions agree that they will communicate at the beginning of each fall term to discuss recruiting, entrance requirements, and any other concerns that either may have about the affiliation. Other communications between them may be scheduled as needs arise.

9. Both QC and North Shore agree to make information about the Transfer Pathway available to prospective students on the admissions or articulations pages of their website. Either party may advertise the arrangement described in this Agreement to its students, prospective students, and alumni through print, online, and interactive marketing materials such as fliers, websites, and other advertisements, subject to the guidelines and restrictions further described in this section.
  - a. Each party shall provide the other with a high-resolution logo file and hereby grants the other license to use the name and/or logo as set forth above.
  - b. Use of the QC name shall be "Quincy College" in all communications.
  - c. Use of the North Shore name shall be "North Shore Community College" in all communications.
10. North Shore agrees to provide QC with at least four on-site recruitment opportunities per year.

11. Neither Institution shall use the name, logo, likeness, trademark, image or other intellectual property of the other for advertising, marketing, endorsement or any other purpose without the specific prior written consent of an authorized representative of the other Institution with respect to each such use.
12. A scholarship award of up to \$2,000 is available for North Shore Community College graduates who have been accepted into the third year of the Bachelor of Science in Computer Science at Quincy College for *spring 2023*. To be considered third-year, a student must have 60 transferrable and applicable college credits with a GPA of 2.0 or higher, and must register for at least one 300-level course required for the BS in Computer Science.

The amount of the scholarship will be based on incoming GPA, and will be awarded by applicable course until the program is completed. QC has final determination on qualifications, award amount and application of award.

Spring 2023	GPA 2.0-2.49	GPA 2.5-3.49	GPA 3.5+
<b>Award</b>	\$1,000	\$1,500	\$2,000

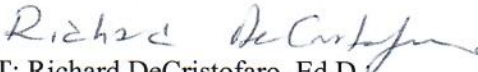
Information on the scholarship will be made available to prospective students on Quincy College's website. QC will communicate the scholarship changes by June 30 of every year. North Shore will share information on this scholarship on its website.

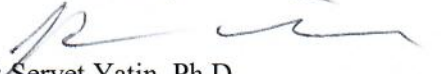
13. This agreement is effective on the date signed and will remain in effect until terminated by either party. Either institution may terminate this Agreement at any time, with or without cause, provided that the terminating institution has given the other institution written notice at least 90 days prior to the effective date of such termination and further, both parties agree that no such termination shall adversely affect any student then attending or accepted by QC pursuant to the terms of this Agreement.
14. The parties agree that this Agreement embodies all of the agreements made by and between them, and supersedes any prior agreements and understandings, with regard to the acceptance of North Shore students into QC. Any modifications or amendments to this Agreement must be in writing and executed by both parties in order to be effective.

*[signature page immediately follows]*


This Agreement has been executed by a duly authorized representative of each party as of the day and year first above written.


**Quincy College**

BY:   
PRINT: Richard DeCristofaro, Ed.D.  
TITLE: President  
DATE: 12/14/2022

BY:   
PRINT: Servet Yatin, Ph.D.  
TITLE: Provost and Chief Academic Officer  
DATE: 12/14/2022

**North Shore Community College**

BY:   
PRINT: William A. Heineman, Ed.D.  
TITLE: President  
DATE:

BY:   
PRINT: Jennifer Mezquita, Ed.D.  
TITLE: Provost  
DATE: December 14, 2022

## Appendix A

Terms and Conditions of the Transfer Pathway:

To be admitted Quincy College's Bachelor of Science in Computer Science, a student must submit:

- A completed online transfer application: [Apply Now | Quincy College](#)
- The application fee will be waived.
- Official college transcripts demonstrating completion of an AA/AS degree, or
  - Official college transcripts showing that the student is registered and enrolled in their last academic term pending completion of their degree
- Transcripts reflecting a minimum cumulative GPA of at least 2.0/4.0

## Appendix B

Assumptions guiding the Exhibits and equivalencies:

- Quincy College will maximize the number of credits that transfer from NSCC to QC, prioritizing Computer Science program requirements, followed by program electives, and then open electives.
- Some BS in Computer Science requirements at QC are waived for NSCC graduates based on the NSCC curriculum, such as MAT 103 College Algebra, or CSI 244 Networking I. In these cases, another class must substitute.
- The majority of computer science courses at NSCC are four credits, while the majority of computer science courses at QC are three credits. A four-credit NSCC computer science course transfers to QC as four credits: three credits satisfying the computer science course requirement, with the additional credit ("Overage") free to satisfy other requirements. "Overage" credits will be applied to program electives, open electives, or substitutions for waived courses.
- General Education:
  - ✓ NSCC's Open Elective will satisfy a General Education requirement as long as it is not a CS course.
  - ✓ The three-credit combined Internship and Portfolio will not satisfy a General Education requirement.
- In a few instances (CPS 168 Introduction to Access and CPS 134 Introduction to Computer Networks), NSCC computer sciences courses carry two credits, and comparable QC courses carry three credits. In such a case, the two-credit NSCC course will satisfy the QC requirement, but the additional credit must be satisfied elsewhere.
- The Exhibits represents the minimum number of credits that will transfer from NSCC to QC; depending on the student's academic record, up to 90 credits will transfer.

## EXHIBIT A. North Shore to Quincy College AS in Computer Programming to BS in Computer Science

- This guide serves as a mapping tool for students. Individual student evaluations will vary.
- Please contact Advising 617-984-1720 or [advising@quincycollege.edu](mailto:advising@quincycollege.edu) with any course alignment questions.

North Shore	Cr	Quincy College	Cr
NS Classes		Quincy College Gen Ed Core Requirements	
CMP 101 Composition 1	3	ENG 101-English Composition I	3
CMP 102 Composition 2	3	ENG 102-English Composition II	3
CPS 100 Information Technology and its Applications	3	CSI 101 Introduction to Computers	3
MAT 151-Precalculus 1	3	MAT 113 Precalculus	3
Open Elective (non CS) <sup>1</sup>	3	General Education Elective	3
WAIVED	X	MAT 103 College Algebra-SUBSTITUTION NEEDED	0
CPS 148 XML <sup>2</sup>	3	SUBSTITUTE FOR MAT 103 COLLEGE ALGEBRA	3
		IDS 167 First Year Seminar (or General Elective)	3
		General Education Elective	3
		MAT 204 Calculus I B	4
		Natural Science Core with Lab	4
		Humanities Elective	3
		History/Government Core	3
		Social Science/Psychology Core	3
NS Classes		Quincy College Program Requirements	
CPS 109 Programming Logic and Design with Python	4	CSI 116 Introduction to Programming*	3
CPS 138 Internet Networking and Security	4	CSI 242 Computer Systems Security*	3
CPS 168 Introduction to Access	2	CSA 213 Database Management	2
CPS 224 Object Oriented Programming in C++	4	CSI 108 Advanced C++*	3
CPS 218 UNIX	4	CSI 226 Unix with Linux*	3
CPS 140 HTML	4	CSA 227 Website Design*	3
CPS 101 Computer Science 1 (Java 1)	4	CSI 107 C++ Programming*	3
CPS 148 XML	0	SUBSTITUTE FOR MAT 103 COLLEGE ALGEBRA	0
WAIVED	X	CSI 244 Networking I-SUBSTITUTION NEEDED	0
CPS 170 Database Theory and Applications <sup>2</sup>	4	SUBSTITUTE FOR CSI 244 NETWORKING I*	3
CPS 102 Computer Science 2 (Java 2)	4	Program Elective*	3
CPS 240 Web Programming with PHP and MySQL	4	Program Elective (counts as 300-level or above)*	3
CPS 122 Operating Systems	4	Open Elective*	3
"Overage" Credits from 4-credit to 3-credit conversion	X	9 credits applied to Open Electives	9
"Overage" Credits from 4-credit to 3-credit conversion	X	1 credit to be applied to missing credit in CSA 213	1
		MAT 210 Discrete Math	4
		CSI 218 Data Structures and Algorithms	3
		CSI 235 Computer Architecture	3
		CSI 313 Advanced Database Management	3
		CSA 229 Web and Mobile Development with JavaScript	3
		CSI 311 Digital Computer Hardware	3
		CSI 318 Analysis of Algorithms	3
		CSI 340 Compiler Theory	3
		CSI 317 Operating Systems	3
		CSI 330 Graphics Programming/UI/UX	3
		CSI 480 Artificial Intelligence	3
		CSI 490 Software Engineering Capstone	3
		Program Electives (Remaining of 6 Required)	0
		Open Elective (Remaining of 12 Required)	0
<b>Minimum # of Transferable Credits</b>	<b>60</b>	<b>Credits Required for BS Degree</b>	<b>120</b>

The Bachelor of Science in Computer Science at Quincy College requires the completion of 120 credits including 1) a 41-credit General Education Core and 2) 79 credits of program requirements that include 67 credits in computer science (or related courses) and 12 open electives. A student who graduates from North Shore with an AS in Computer Programming can transfer to QC a minimum 60 and up to 90 credits. A 'C' or better is required to transfer any of the 67 credits of program requirements, and a 'D' or better is required to transfer any of the 41 credits of general education core and 12 open elective credits.

\*Indicates that the course is a four-credit course transferring as a three-credit course, with "Overage" credits applied elsewhere.

<sup>1</sup> To satisfy General Education Elective, the Open Elective cannot be a Computer Science course. Combined Portfolio and Internship does not satisfy Gen Ed.

<sup>2</sup> MAT 103 College Algebra and CSI 244 Networking I are waived as content is covered in other courses. Students must take other courses in Mathematics or Computer Science as substitutes. CPS 148 XML or CPS 170 Database Theory and Applications are examples; other courses will qualify.

## EXHIBIT B. North Shore to Quincy College

### AA in Computer Science Transfer-Information Technology Pathway

- This guide serves as a mapping tool for students. Individual student evaluations will vary.
- Please contact Advising 617-984-1720 or [advising@quincycollege.edu](mailto:advising@quincycollege.edu) with any course alignment questions.

North Shore	Cr	Quincy College	Cr
NS Classes <span style="float: right;">▶</span>		<b>Quincy College Gen Ed Core Requirements</b>	
CMP 101 Composition 1	3	ENG 101-English Composition I	3
CMP 102 Composition 2	3	ENG 102-English Composition II	3
Humanities Elective	3	Humanities Elective	3
Social Science Elective	3	Social Science/Psychology Core	3
MAT 251 Calculus I	4	MAT 204 Calculus I B	4
WAIVED	X	CSI 101 Introduction to Computers-SUBSTITUTION NEEDED	0
WAIVED	X	MAT 113 Precalculus-SUBSTITUTION NEEDED	0
WAIVED	X	MAT 103 College Algebra- SUBSTITUTION NEEDED	0
"Overage" Credits from 4-credit to 3 credit conversion	X	Nine of Ten Credits for SUBSTITUTIONS	9
		<b>General Education Elective</b>	<b>6</b>
		<b>IDS 167 First Year Seminar (or General Elective)</b>	<b>3</b>
		<b>Natural Science Core with Lab</b>	<b>4</b>
		<b>History/Government Core</b>	<b>3</b>
NS Classes <span style="float: right;">▶</span>		<b>Quincy College Program Requirements</b>	
CPS 102 Computer Science 2 (Java 2)	4	CSI 116 Introduction to Programming*	3
CPS 170 Database Theory and Applications	4	CSA 213 Database Management*	3
MAT 241 Discrete Structures	4	MAT 210 Discrete Math	4
CPS 203 Data Structures	4	CSI 218 Data Structures and Algorithms*	3
CPS 224 Object Oriented Programming in C++	4	CSI 108 Advanced C++*	3
CPS 226 Computer Organization and Architecture	4	CSI 235 Computer Architecture*	3
EGS 216 Introduction to Digital Logic Design	4	CSI 311 Digital Computer Hardware*	3
CPS 218 UNIX	4	CSI 226 Unix with Linux*	3
CPS 101 Computer Science 1 (Java 1)	4	CSI 107 C++ Programming*	3
MAT 252 Calculus II	4	Program Elective (counts as 300-level or above)	4
PHY 201 Physics I Mechanics	4	Open Elective*	3
PHY 203 Physics 2: Electricity and Magnetism	4	Open Elective* (counts as 300-level or above)	3
"Overage" Credits from 4-credit to 3 credit conversion	X	One of Ten Credits toward Open Electives	1
		<b>CSA 227 Website Design</b>	<b>3</b>
		<b>CSI 242 Computer Systems Security</b>	<b>3</b>
		<b>CSI 244 Networking I</b>	<b>3</b>
		<b>CSI 313 Advanced Database Management</b>	<b>3</b>
		<b>CSA 229 Web and Mobile Development with JavaScript</b>	<b>3</b>
		<b>CSI 318 Analysis of Algorithms</b>	<b>3</b>
		<b>CSI 340 Compiler Theory</b>	<b>3</b>
		<b>CSI 317 Operating Systems</b>	<b>3</b>
		<b>CSI 330 Graphics Programming/UI/UX</b>	<b>3</b>
		<b>CSI 480 Artificial Intelligence</b>	<b>3</b>
		<b>CSI 490 Software Engineering Capstone</b>	<b>3</b>
		<b>Program Electives (Remaining of 6 Required)</b>	<b>2</b>
		<b>Open Elective (Remaining of 12 Required)</b>	<b>5</b>
<b>Minimum # of Transferable Credits</b>	<b>64</b>	<b>Credits Required for BS Degree</b>	<b>120</b>

The Bachelor of Science in Computer Science at Quincy College requires the completion of 120 credits including 1) a 41-credit General Education Core and 2) 79 credits of program requirements that include 67 credits in computer science (or related courses) and 12 open electives. A student who graduates from North Shore with an AS in Computer Transfer-Information Technology Pathway can transfer to QC a minimum of 64 and up to 90 credits. A 'C' or better is required to transfer any of the 67 credits of program requirements, and a 'D' or better is required to transfer any of the 41 credits of general education core and 12 open elective credits.

\*Indicates that the course is a four-credit course transferring as a three-credit course, with "Overage" credits applied elsewhere.

## EXHIBIT C. North Shore to Quincy College AS in Computer Networking and Security

- This guide serves as a mapping tool for students. Individual student evaluations will vary.
- Please contact Advising 617-984-1720 or [advising@quincycollege.edu](mailto:advising@quincycollege.edu) with any course alignment questions.

North Shore	Cr	Quincy College	Cr
NS Classes <span style="float: right;">→</span>		<b>Quincy College Gen Ed Core Requirements</b>	<b>41</b>
CMP 101 Composition 1	3	ENG 101-English Composition I	3
CMP 102 Composition 2	3	ENG 102-English Composition II	3
CPS 100 Information Technology and its Applications	3	CSI 101 Introduction to Computers	3
MAT 151 Precalculus I	3	MAT 113 Precalculus	3
WAIVED	X	MAT 103 College Algebra- SUBSTITUTION NEEDED	0
"Overage" Credits from 4-credit to 3 credit conversion	X	SUBSTITUTE FOR MAT 103 COLLEGE ALGEBRA	3
Open Elective (non CS) <sup>1</sup>	3	General Education Elective	3
		<b>IDS 167 First Year Seminar (or General Elective)</b>	<b>3</b>
		<b>General Education Elective</b>	<b>3</b>
		<b>MAT 204 Calculus I B</b>	<b>4</b>
		<b>Humanities</b>	<b>3</b>
		<b>Social Science/Psychology Core/Elective</b>	<b>3</b>
		<b>Natural Science Core with Lab</b>	<b>4</b>
		<b>History/Government Core</b>	<b>3</b>
NS Classes <span style="float: right;">→</span>		<b>Quincy College Program Requirements</b>	<b>79</b>
CPS 102 Computer Science 2 (Java 2)	4	CSI 116 Introduction to Programming*	3
CPS 170 Database Theory and Applications	4	CSA 213 Database Management*	3
CPS 138 Internet Networking and Security	4	CSI 242 Computer Systems Security*	3
CPS 134 Introduction to Computer Networks	2	CSI 244 Networking I	2
CPS 218 UNIX	4	CSI 226 Unix with Linux	3
CPS 101 Computer Science 1 (Java 1)	4	CSI 107 C++ Programming	3
CPS 182 Information Systems Disaster Recovery	2	Program or Open Elective	2
CPS 250 Advanced Network Security	3	Program or Open Elective (counts as 300-level or above)	3
CPS 130 Computer Hardware	3	Program or Open Elective	3
CPS 251 Cisco 1: Switching, Routing, and Wireless Essentials	4	Program or Open Elective * (counts as 300-level or above)	3
CPS 136 Advanced Computer Networks	4	Program or Open Elective*	3
CPS 122 Operating Systems OR CPS 240 Web Programming with PHP and MySQL	4	Program or Open Elective*	3
CPS 253 Cisco 2: Network Security and Infrastructure	3	Program or Open Elective	3
"Overage" Credits from 4-credit to 3-credit conversion	X	1 credit to be applied to missing credit for CSI 244 Networking I	1
		<b>MAT 210 Discrete Math</b>	<b>4</b>
		<b>CSI 218 Data Structures and Algorithms</b>	<b>3</b>
		<b>CSI 108 Advanced C++</b>	<b>3</b>
		<b>CSI 235 Computer Architecture</b>	<b>3</b>
		<b>CSI 311 Digital Computer Hardware</b>	<b>3</b>
		<b>CSA 227 Website Design</b>	<b>3</b>
		<b>CSI 313 Advanced Database Management</b>	<b>3</b>
		<b>CSA 229 Web and Mobile Development with JavaScript</b>	<b>3</b>
		<b>CSI 318 Analysis of Algorithms</b>	<b>3</b>
		<b>CSI 340 Compiler Theory</b>	<b>3</b>
		<b>CSI 317 Operating Systems</b>	<b>3</b>
		<b>CSI 330 Graphics Programming/UI/UX</b>	<b>3</b>
		<b>CSI 480 Artificial Intelligence</b>	<b>3</b>
		<b>CSI 490 Software Engineering Capstone</b>	<b>3</b>
		<b>Program Electives (Remaining of 6 Required)</b>	<b>0</b>
		<b>Open Elective (Remaining of 12 Required)</b>	<b>0</b>
<b>Minimum # of Transferable Credits</b>	<b>56/60</b>	<b>Credits Required for BS Degree</b>	<b>120</b>

The Bachelor of Science in Computer Science at Quincy College requires the completion of 120 credits including 1) a 41-credit General Education Core and 2) 79 credits of program requirements that include 67 credits in computer science (or related courses) and 12 open electives. A student who graduates from North Shore with an AS in Computer Networking and Security can transfer to QC a minimum of 56 and up to 90 credits. A 'C' or better is required to transfer any of the 67 credits of program requirements, and a 'D' or better is required to transfer any of the 41 credits of general education core and 12 open elective credits.

\*Indicates that the course is a four-credit course transferring as a three-credit course, with "Overage" credits applied elsewhere.

1 To satisfy General Education Elective, the Open Elective cannot be Computer Science. Combined Portfolio and Internship does not satisfy Gen Ed.



## EXHIBIT D. North Shore to Quincy College AS in Computer Applications

- This guide serves as a mapping tool for students. Individual student evaluations will vary.
- Please contact Advising 617-984-1720 or [advising@quincycollege.edu](mailto:advising@quincycollege.edu) with any course alignment questions.

North Shore	Cr	Quincy College	Cr
NS Classes		<b>Quincy College Gen Ed Core Requirements</b>	<b>41</b>
CMP 101 Composition 1	3	ENG 101-English Composition I	3
CMP 102 Composition 2	3	ENG 102-English Composition II	3
SPE 102 Speech or SPE104 Small Group Communications	3	Humanities Elective	3
Social Science Elective	3	Social Science/Psychology Core	3
CPS 100 Information Technology and its Applications	3	CSI 101 Introduction to Computers	3
MAT 151 Precalculus	3	MAT 113 Precalculus	3
Liberal Arts Elective	3	General Education Elective	3
Open Elective (non CS) <sup>1</sup>	3	General Education Elective	3
WAIVED	X	MAT 103 College Algebra- SUBSTITUTION NEEDED	0
"Overage" Credits from 4-credit to 3 credit conversion	X	Three Credits for MAT 103 SUBSTITUTION	3
BUS 100 Introduction to Business	3	IDS 167 First Year Seminar (or General Elective)	3
		<b>MAT 204 Calculus I B</b>	<b>4</b>
		<b>Natural Science Core with Lab</b>	<b>4</b>
		<b>History/Government Core</b>	<b>3</b>
NS Classes		<b>Quincy College Program Requirements</b>	<b>79</b>
CPS 168 Introduction to Access	2	CSA 213 Database Management	2
CPS 138 Internet Networking and Security	4	CSI 242 Computer Systems Security*	3
CPS 210 Computer Systems Development	4	Program Elective* (counts as 300-level or above)	3
CPS 114 Advanced Microsoft Office	4	Program Elective*	3
CPS 122 Operating Systems	4	Open Elective*	3
CPS 124 Web Fluency	3	Open Elective	3
Computer Science Electives <sup>2</sup>	12	Open Electives (3 credits must equate 300-level)	6-12
"Overage" Credits from 4-credit to 3-credit conversion	X	1 credit to be applied to missing credit in CSA 213	1
		<b>MAT 210 Discrete Math</b>	<b>4</b>
		<b>CSI 218 Data Structures and Algorithms</b>	<b>3</b>
		<b>CSI 108 Advanced C++</b>	<b>3</b>
		<b>CSI 235 Computer Architecture</b>	<b>3</b>
		<b>CSI 311 Digital Computer Hardware</b>	<b>3</b>
		<b>CSI 226 Unix with Linux</b>	<b>3</b>
		<b>CSI 107 C++ Programming</b>	<b>3</b>
		<b>CSI 116 Introduction to Programming<sup>3</sup></b>	<b>3</b>
		<b>CSI 244 Networking I</b>	<b>3</b>
		<b>CSI 313 Advanced Database Management</b>	<b>3</b>
		<b>CSA 227 Website Design</b>	<b>3</b>
		<b>CSA 229 Web and Mobile Development with JavaScript</b>	<b>3</b>
		<b>CSI 318 Analysis of Algorithms</b>	<b>3</b>
		<b>CSI 340 Compiler Theory</b>	<b>3</b>
		<b>CSI 317 Operating Systems</b>	<b>3</b>
		<b>CSI 330 Graphics Programming/UI/UX</b>	<b>3</b>
		<b>CSI 480 Artificial Intelligence</b>	<b>3</b>
		<b>CSI 490 Software Engineering Capstone</b>	<b>3</b>
		<b>Program Electives (Remaining of 6 Required)</b>	<b>0</b>
		<b>Open Elective (Remaining of 12 Required)</b>	<b>0</b>
<b>Minimum # of Transferable Credits</b>	<b>54/60</b>	<b>Credits Required for BS Degree</b>	<b>120</b>

The Bachelor of Science in Computer Science at Quincy College requires the completion of 120 credits including 1) a 41-credit General Education Core and 2) 79 credits of program requirements that include 67 credits in computer science (or related courses) and 12 open electives. A student who graduates from North Shore with an AS in Computer Applications can transfer to QC a minimum 54 and up to 90 credits. A 'C' or better is required to transfer any of the 67 credits of program requirements, and a 'D' or better is required to transfer any of the 41 credits of general education core and 12 open elective credits.

\*Indicates that the course is a four-credit course transferring as a three-credit course, with "Overage" credits applied elsewhere.

1 To satisfy General Education Elective, the Open Elective cannot be a Computer Science course. Combined Portfolio and Internship does not satisfy Gen Ed.

2 Depending on the courses, computer science electives taken at NSCC may satisfy one or more program requirements in red, increasing the number of transferable credits.

3 CSI 116 Introduction to Programming cannot be waived for this program.

## EXHIBIT E.

# North Shore to Quincy College AS in Database Management and Security

- This guide serves as a mapping tool for students. Individual student evaluations will vary.
- Please contact Advising 617-984-1720 or [advising@quincycollege.edu](mailto:advising@quincycollege.edu) with any course alignment questions.

North Shore	Cr	Quincy College	Cr
NS Classes		<b>Quincy College Gen Ed Core Requirements</b>	<b>41</b>
CMP 101 Composition 1	3	ENG 101-English Composition I	3
CMP 102 Composition 2	3	ENG 102-English Composition II	3
Humanities Elective	3	Humanities Elective	3
CPS 100 Information Technology and its Applications	3	CSI 101 Introduction to Computers	3
MAT 151 Precalculus	3	MAT 113 Precalculus	3
MAT 143 Introduction to Statistics	3	General Education Elective	3
Science Elective	3	General Education Elective	3
LS Laboratory Science Elective	4	Natural Science Core with Lab	4
WAIVED	X	MAT 103 College Algebra- SUBSTITUTION NEEDED	0
CPS 177 Database Programming with SQL <sup>1</sup>	3	Three Credits for MAT 103 SUBSTITUTION	3
Open Elective (Non CS)	1	IDS 167 First Year Seminar (or General Elective)	1
		<b>IDS 167 First Year Seminar (or General Elective)</b>	<b>2</b>
		<b>Social Science/Psychology Core</b>	<b>3</b>
		<b>MAT 204 Calculus I B</b>	<b>4</b>
		<b>History/Government Core</b>	<b>3</b>
NS Classes		<b>Quincy College Program Requirements</b>	<b>79</b>
CPS 168 Introduction to Access	2	CSA 213 Database Management	2
CPS 134 Introduction to Computer Networks	2	CSI 244 Networking I	2
CPS 138 Internet Networking and Security	4	CSI 242 Computer Systems Security*	3
CPS 218 UNIX	4	CSI 226 Unix with Linux*	3
CPS 221 Database Administration	4	Program Elective*	3
CPS 250 Advanced Network Security	3	Program Elective (counts as 300-level or above)	3
CPS 173 Data Management Using Excel	3	Open Elective	3
CPS 219 Data Analysis	3	Open Elective (counts as 300-level or above)	3
CPS 170 Database Theory and Applications	4	Open Elective*	3
CPS 177 Database Programming with SQL <sup>1</sup>	0	SUBSTITUTE FOR MAT 103 COLLEGE ALGEBRA	0
CPS 182 Information Systems Disaster Recovery	2	2 credits to be applied for missing credits-CSA 213 & 244	2
		<b>MAT 210 Discrete Math</b>	<b>4</b>
		<b>CSI 218 Data Structures and Algorithms</b>	<b>3</b>
		<b>CSI 108 Advanced C++</b>	<b>3</b>
		<b>CSI 235 Computer Architecture</b>	<b>3</b>
		<b>CSI 311 Digital Computer Hardware</b>	<b>3</b>
		<b>CSI 107 C++ Programming</b>	<b>3</b>
		<b>CSI 116 Introduction to Programming<sup>1</sup></b>	<b>3</b>
		<b>CSI 313 Advanced Database Management</b>	<b>3</b>
		<b>CSA 227 Website Design</b>	<b>3</b>
		<b>CSA 229 Web and Mobile Development with JavaScript</b>	<b>3</b>
		<b>CSI 318 Analysis of Algorithms</b>	<b>3</b>
		<b>CSI 340 Compiler Theory</b>	<b>3</b>
		<b>CSI 317 Operating Systems</b>	<b>3</b>
		<b>CSI 330 Graphics Programming/UI/UX</b>	<b>3</b>
		<b>CSI 480 Artificial Intelligence</b>	<b>3</b>
		<b>CSI 490 Software Engineering Capstone</b>	<b>3</b>
		<b>Program Electives (Remaining of 6 Required)</b>	<b>0</b>
		<b>Open Elective (Remaining of 12 Required)</b>	<b>3</b>
<b>Minimum # of Transferable Credits</b>	<b>60</b>	<b>Credits Required for BS Degree</b>	<b>120</b>

The Bachelor of Science in Computer Science at Quincy College requires the completion of 120 credits including 1) a 41-credit General Education Core and 2) 79 credits of program requirements that include 67 credits in computer science (or related courses) and 12 open electives. A student who graduates from North Shore with an AS in Database Management and Security can transfer to QC a minimum of 60 and up to 90 credits. A 'C' or better is required to transfer any of the 67 credits of program requirements, and a 'D' or better is required to transfer any of the 41 credits of general education core and 12 open elective credits.

\*Indicates that the course is a four-credit course transferring as a three-credit course, with "Overage" credits applied elsewhere.

<sup>1</sup> MAT 103 College Algebra is waived because the content is covered in other courses. Students must take other courses in Mathematics or Computer Science as substitutes. CPS 177 Database Programming with SQL is listed as an example; other courses will qualify.

## EXHIBIT F.

# North Shore to Quincy College AA in Computer Information Systems

- This guide serves as a mapping tool for students. Individual student evaluations will vary.
- Please contact Advising 617-984-1720 or [advising@quincycollege.edu](mailto:advising@quincycollege.edu) with any course alignment questions.

North Shore	Cr	Quincy College	Cr
NS Classes		<b>Quincy College Gen Ed Core Requirements</b>	<b>41</b>
CMP 101 Composition 1	3	ENG 101-English Composition I	3
CMP 102 Composition 2	3	ENG 102-English Composition II	3
Humanities Elective	3	Humanities Elective	3
Social Science Elective	3	Social Science/Psychology Core	3
CPS 100 Information Technology and its Applications	3	CSI 101 Introduction to Computers	3
WAIVED	X	MAT 103 College Algebra	0
MAT 152 Precalculus 2 or above	3	Three Credits for MAT 103 SUBSTITUTION	3
MAT 151 Precalculus 1 or above	3	MAT 113 Precalculus	3
Humanities Elective	3	General Education Elective	3
Social Science Elective	3	Open Elective	3
LS Laboratory Science Elective	4	Natural Science Core with Lab	4
Science Elective	3	IDS 167 First Year Seminar (or General Elective)	3
		<b>MAT 204 Calculus I B</b>	<b>4</b>
		<b>History/Government Core</b>	<b>3</b>
NS Classes		<b>Quincy College Program Requirements</b>	<b>79</b>
CPS 101 Computer Science 1 (Java 1)	4	CSI 116 Introduction to Programming*	3
CPS 170 Database Theory and Applications	4	CSA 213 Database Management*	3
CPS 122 Operating Systems	4	Program Elective*	3
CPS 130 Computer Hardware	3	Open Elective	3
CPS 173 Database Management Using Excel	3	Open Elective	3
Computer Science Electives (200 or above)	3	Program Elective (counts as 300-level or above)	3
Computer Science Electives <sup>1</sup> (any level)	5	Open Electives (or program requirements, see below)	3
		<b>CSI 107 C++ Programming</b>	<b>3</b>
		<b>CSI 226 Unix with Linux</b>	<b>3</b>
		<b>CSI 242 Computer Systems Security</b>	<b>3</b>
		<b>CSI 244 Networking I</b>	<b>3</b>
		<b>MAT 210 Discrete Math</b>	<b>4</b>
		<b>CSI 218 Data Structures and Algorithms</b>	<b>3</b>
		<b>CSI 108 Advanced C++</b>	<b>3</b>
		<b>CSI 235 Computer Architecture</b>	<b>3</b>
		<b>CSA 227 Website Design</b>	<b>3</b>
		<b>CSI 311 Digital Computer Hardware</b>	<b>3</b>
		<b>CSI 107 C++ Programming</b>	<b>3</b>
		<b>CSI 313 Advanced Database Management</b>	<b>3</b>
		<b>CSA 229 Web and Mobile Development with JavaScript</b>	<b>3</b>
		<b>CSI 318 Analysis of Algorithms</b>	<b>3</b>
		<b>CSI 340 Compiler Theory</b>	<b>3</b>
		<b>CSI 317 Operating Systems</b>	<b>3</b>
		<b>CSI 330 Graphics Programming/UI/UX</b>	<b>3</b>
		<b>CSI 480 Artificial Intelligence</b>	<b>3</b>
		<b>CSI 490 Software Engineering Capstone</b>	<b>3</b>
		<b>Program Electives (Remaining of 6 Required)</b>	<b>0</b>
		<b>Open Elective (Remaining of 12 Required)</b>	<b>0</b>
<b>Minimum # of Transferable Credits</b>	<b>60</b>	<b>Credits Required for BS</b>	<b>120</b>

The Bachelor of Science in Computer Science at Quincy College requires the completion of 120 credits including 1) a 41-credit General Education Core and 2) 79 credits of program requirements that include 67 credits in computer science (or related courses) and 12 open electives. A student who graduates from North Shore with an AA in Computer Information Systems can transfer to QC a minimum of 60 and up to 90 credits. A 'C' or better is required to transfer any of the 67 credits of program requirements, and a 'D' or better is required to transfer any of the 41 credits of general education core and 12 open elective credits.

\*Indicates that the course is a four-credit course transferring as a three-credit course, with "Overage" credits applied elsewhere.

<sup>1</sup> Depending on the courses, computer science electives taken at NSCC may satisfy one or more program requirements in red, increasing the number of transferable credits.